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Distributed shared memory in a loosely coupled distributed system

B. D. Fleisch

August 1987 ACM SIGCOMM Computer Communication Review, Proceedings of the ACM workshop on Frontiers in computer communications technology SIGCOMM '87, Volume 17 Issue 5

Publisher: ACM Press

Full text available: 🔂 pdf(1.32 MB)

Additional Information: full citation, abstract, references, citings, index

This work outlines the development and performance validation of an architecture for distributed shared memory in a loosely coupled distributed computing environment. This distributed shared memory may be used for communication and data exchange between communicants on different computing sites; the mechanism will operate transparently and in a distributed manner. This paper describes the architecture of this mechanism and metrics which will be used to measure its performan ...

² A taxonomy-based comparison of several distributed shared memory systems



Ming-Chit Tam, Jonathan M. Smith, David J. Farber

July 1990 ACM SIGOPS Operating Systems Review, Volume 24 Issue 3

Publisher: ACM Press

Full text available: pdf(1.96 MB)

Additional Information: full citation, abstract, citings, index terms

Two possible modes of Input/Output (I/O)are "sequential" and "random-access", and there is an extremely strong conceptual link between I/O and communication. Sequential communication, typified in the I/O setting by magnetic tape, is typified in the communication setting by a **stream**, e.g., a UNIX¹ pipe. Random-access communication, typified in the I/O setting by a drum or disk device, is typified in the communication setting by **shared memory**. In this paper, we study and s ...

3 Techniques for reducing consistency-related communication in distributed shared-



memory systems

John B. Carter, John K. Bennett, Willy Zwaenepoel August 1995 ACM Transactions on Computer Systems (TOCS), Volume 13 Issue 3

Publisher: ACM Press

Full text available: pdf(2.86 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

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Keywords: cache consistency protocols, distributed shared memory, memory models, release consistency, virtual shared memory

A compiler-directed distributed shared memory system

Tzi-cker Chiueh, Manish Verma

July 1995 Proceedings of the 9th international conference on Supercomputing

Publisher: ACM Press

Full text available: pdf(1.22 MB) Additional Information: full citation, references, citings, index terms

Source-level global optimizations for fine-grain distributed shared memory systems

R. Veldema, R. F. H. Hofman, R. A. F. Bhoedjang, C. J. H. Jacobs, H. E. Bal June 2001 ACM SIGPLAN Notices, Proceedings of the eighth ACM SIGPLAN symposium on Principles and practices of parallel programming PPoPP

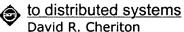
'01, Volume 36 Issue 7

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(112.60 KB) terms

This paper describes and evaluates the use of aggressive static analysis in Jackal, a finegrain Distributed Shared Memory (DSM) system for Java. Jackal uses an optimizing, source-level compiler rather than the binary rewriting techniques employed by most other fine-grain DSM systems. Source-level analysis makes existing access-check optimizations (e.g., access-check batching) more effective and enables two novel fine-grain DSM optimizations: object-graph aggregatio ...

Preliminary thoughts on problem-oriented shared memory: a decentralized approach



October 1985 ACM SIGOPS Operating Systems Review, Volume 19 Issue 4

Publisher: ACM Press

Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, references, citings

Much of the work to date on distributed systems has focused on the correct choice of communication paradigm, stressing (for example) message primitives, remote procedure call, problem- oriented protocols and so on. A distributed system service is then implemented as a module executing on particular server machine that is accessed using these communication facilities. In contrast, the shared memory paradigm has been used on multiprocessor and uniprocessor systems. In the shared memo ...

7 Accurate data redistribution cost estimation in software distributed shared memory



Donald G. Morris, David K. Lowenthal

June 2001 ACM SIGPLAN Notices, Proceedings of the eighth ACM SIGPLAN symposium on Principles and practices of parallel programming PPoPP

'01, Volume 36 Issue 7

Publisher: ACM Press

http://portal.acm.org/results.cfm?CFID=74588732&CFTOKEN=93325665&adv=1&COLL=... 4/26/06

Full text available: pdf(270.58 KB) Additional Information: full citation, abstract, references, citings, index terms

Distributing data is one of the key problems in implementing efficient distributed-memory parallel programs. The problem becomes more difficult in programs where data redistribution between computational phases is considered. The global data distribution problem is to find the optimal distribution in multi-phase parallel programs. Solving this problem requires accurate knowledge of data redistribution cost. We are investigating this problem in the context of a sof ...

8 An integrated compile-time/run-time software distributed shared memory system



September 1996 ACM SIGPLAN Notices, ACM SIGOPS Operating Systems Review,
Proceedings of the seventh international conference on Architectural
support for programming languages and operating systems ASPLOSVII. Volume 31, 30 Issue 9, 5

Publisher: ACM Press

Full text available: pdf(1.30 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

On a distributed memory machine, hand-coded message passing leads to the most efficient execution, but it is difficult to use. Parallelizing compilers can approach the performance of hand-coded message passing by translating data-parallel programs into message passing programs, but efficient execution is limited to those programs for which precise analysis can be carried out. Shared memory is easier to program than message passing and its domain is not constrained by the limitations of paralleli ...

9 BFXM: a parallel file system model based on the mechanism of distributed shared



memory
Oun Li, Jie Jing, Li Xie

October 1997 ACM SIGOPS Operating Systems Review, Volume 31 Issue 4

Publisher: ACM Press

Full text available: pdf(768.69 KB) Additional Information: full citation, abstract, index terms

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Keywords: cache only memory access, distributed shared memory, parallel file system

10 Workload decomposition for particle simulation applications on hierarchical

distributed-shared memory parallel systems with integration of HPF and OpenMP Sergio Briguglio, Beniamino Di Martino, Gregorio Vlad

June 2001 Proceedings of the 15th international conference on Supercomputing Publisher: ACM Press

Full text available: pdf(194.90 KB) Additional Information: full citation, abstract, references, index terms

A crucial issue in programming hierarchical distributed-shared memory systems is the workload decomposition. In this paper we address this issue in the framework of porting typical particle in cell (PIC) applications on hierarchical distributed-shared memory parallel systems. The workload decomposition we have devised consists in a two-stage procedure: a higher-level decomposition among the computational nodes, and a lower-level one among the processors of each computational nod ...





11 Distributed shared memory systems with improved barrier synchronization and data



transfer

Nian-Feng Tzeng, Angkul Kongmunvattana

July 1997 Proceedings of the 11th international conference on Supercomputing

Publisher: ACM Press

Full text available: pdf(1.50 MB)

Additional Information: full citation, references, citings, index terms

12 An asynchronous protocol for release consistent distributed shared memory systems



Jaeheung Yeo, Heon Y. Yeom, Taesoon Park

March 2000 Proceedings of the 2000 ACM symposium on Applied computing - Volume

Publisher: ACM Press

Full text available: 🔁 pdf(889.41 KB) Additional Information: full citation, references, index terms

Keywords: DSM, asynchronous, release consistency

13 PLUS: a distributed shared-memory system



Roberto Bisiani, Mosur Ravishankar

May 1990 ACM SIGARCH Computer Architecture News, Proceedings of the 17th annual international symposium on Computer Architecture ISCA '90, Volume

18 Issue 3a Publisher: ACM Press

Full text available: pdf(1.33 MB)

Additional Information: full citation, abstract, references, citings, index

<u>terms</u>

PLUS is a multiprocessor architecture tailored to the fast execution of a single multithreaded process; its goal is to accelerate the execution of CPU-bound applications. PLUS supports shared memory and efficient synchronization. Memory access latency is reduced by non-demand replication of pages with hardware-supported coherence between replicated pages. The architecture has been simulated in detail and the paper presents some of the key measurements that have been used to substantiate our ...

14 How to share memory in a distributed system



Eli Upfal, Avi Wigderson

January 1987 Journal of the ACM (JACM), Volume 34 Issue 1

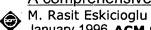
Publisher: ACM Press

Full text available: pdf(960.43 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

The power of shared-memory in models of parallel computation is studied, and a novel distributed data structure that eliminates the need for shared memory without significantly increasing the run time of the parallel computation is described. More specifically, it is shown how a complete network of processors can deterministically simulate one PRAM step in O(log n/(log log n)2) time when both models use n

15 A comprehensive bibliography of distributed shared memory



January 1996 ACM SIGOPS Operating Systems Review, Volume 30 Issue 1

Publisher: ACM Press

Full text available: pdf(2.08 MB) Additional Information: full citation, index terms 16 Munin: distributed shared memory based on type-specific memory coherence

J. K. Bennett, J. B. Carter, W. Zwaenepoel

February 1990 ACM SIGPLAN Notices, Proceedings of the second ACM SIGPLAN symposium on Principles & practice of parallel programming PPOPP **'90**, Volume 25 Issue 3

Publisher: ACM Press

Full text available: pdf(1.05 MB)

Additional Information: full citation, abstract, references, citings, index

terms

We are developing Munin, a system that allows programs written for shared memory multiprocessors to be executed efficiently on distributed memory machines. Munin attempts to overcome the architectural limitations of shared memory machines, while maintaining their advantages in terms of ease of programming. Our system is unique in its use of loosely coherent memory, based on the partial order specified by a shared memory parallel program, and in its use of type-specific memory coherence. Ins ...

17 Mirage: a coherent distributed shared memory design

B. Fleisch, G. Popek

November 1989 ACM SIGOPS Operating Systems Review , Proceedings of the twelfth ACM symposium on Operating systems principles SOSP '89, Volume 23

Issue 5 **Publisher:** ACM Press

Full text available: pdf(1.63 MB)

Additional Information: full citation, abstract, references, citings, index terms

Shared memory is an effective and efficient paradigm for interprocess communication. We are concerned with software that makes use of shared memory in a single site system and its extension to a multimachine environment. Here we describe the design of a distributed shared memory (DSM) system called Mirage developed at UCLA. Mirage provides a form of network transparency to make network boundaries invisible for shared memory and is upward compatible with an existing interfac ...

18 CRL: high-performance all-software distributed shared memory

K. L. Johnson, M. F. Kaashoek, D. A. Wallach

December 1995 ACM SIGOPS Operating Systems Review, Proceedings of the fifteenth ACM symposium on Operating systems principles SOSP '95, Volume 29

Publisher: ACM Press

Full text available: pdf(2.02 MB)

Additional Information: full citation, references, citings, index terms

19 Scalable fault-tolerant distributed shared memory

Florin Sultan, Liviu Iftode, Thu Nguyen

November 2000 Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)

Publisher: IEEE Computer Society

Full text available: pdf(247.40 KB) Additional Information: full citation, abstract, references, citings, index terms

Publisher Site

This paper shows how a state-of-the-art software distributed shared-memory (DSM) protocol can be efficiently extended to tolerate single-node failures. In particular, we extend a home-based lazy release consistency (HLRC) DSM system with independent checkpointing and logging to volatile memory, targeting shared-memory computing on very large LAN-based clusters. In these environments, where global coordination may be expensive, independent checkpointing becomes critical to scalability. Howev ...





20 Experiences in integrating distributed shared memory with virtual memory



<u>management</u>

R. Ananthanarayanan, Sathis Menon, Ajay Mohindra, Umakishore Ramachandran July 1992 **ACM SIGOPS Operating Systems Review**, Volume 26 Issue 3

Publisher: ACM Press

Full text available: pdf(1.56 MB)

Additional Information: full citation, abstract, citings, index terms

While the duality between message-passing and shared memory for interprocess communication is well-known, the shared memory paradigm has drawn considerable attention in recent times even in distributed systems. Distributed Shared Memory (DSM) is the abstraction for supporting the notion of shared memory in a physically non-shared (distributed) architecture. It gives a uniform set of mechanisms for accessing local and remote memories. Further, by combining shared memory style synchronization with ...

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1 Preliminary thoughts on problem-oriented shared memory: a decentralized approach

to distributed systems David R. Cheriton

October 1985 ACM SIGOPS Operating Systems Review, Volume 19 Issue 4

Publisher: ACM Press

Full text available: pdf(1.05 MB)

Additional Information: full citation, abstract, references, citings

Much of the work to date on distributed systems has focused on the correct choice of communication paradigm, stressing (for example) message primitives, remote procedure call, problem- oriented protocols and so on. A distributed system service is then implemented as a module executing on particular server machine that is accessed using these communication facilities. In contrast, the shared memory paradigm has been used on multiprocessor and uniprocessor systems. In the shared memo ...

2 Paradigms 2: An architecture for a wide area distributed system

Philip Homburg, Maarten van Steen, Andrew S. Tanenbaum

September 1996 Proceedings of the 7th workshop on ACM SIGOPS European workshop: Systems support for worldwide applications

Publisher: ACM Press

Full text available: pdf(658.88 KB) Additional Information: full citation, abstract, references, citings

Distributed systems provide sharing of resources and information over a computer network. A key design issue that makes these systems attractive is that all aspects related to distribution are transparent to users. Unfortunately, general-purpose wide area distributed systems that allow users to share and manage arbitrary resources in a transparent way hardly exist. In particular, they generally do not take into account the most important properties that characterize wide area systems: 1) A very ...

3 "Topologies"—distributed objects on multicomputers

Karsten Schwan, Win Bo

May 1990 ACM Transactions on Computer Systems (TOCS), Volume 8 Issue 2

Publisher: ACM Press

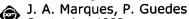
Full text available: pdf(3.83 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Application programs written for large-scale multicomputers with interconnection structures known to the programmer (e.g., hypercubes or meshes) use complex

communication structures for connecting the applications' parallel tasks. Such structures implement a wide variety of functions, including the exchange of data or control information relevant to the task computations and/or the communications required for task synchronization, message forwarding/filtering under program control, and so o ...

4 Extending the operating system to support an object-oriented environment



September 1989 ACM SIGPLAN Notices, Conference proceedings on Object-oriented programming systems, languages and applications OOPSLA '89,

Volume 24 Issue 10

Publisher: ACM Press

Full text available: pdf(1.21 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>

terms

Comandos is a project within the European Strategic Programme for Research on Information Technology - ESPRIT and it stems from the identified need of providing simpler and more integrated environments for application development in large distributed systems. The fundamental goal of the project is the definition of an integrated platform providing support for distributed and concurrent processing in a LAN environment, extensible and distributed data management an ...

5 Implementation and performance of Munin

A John B. Carter, John K. Bennett, Willy Zwaenepoel

September 1991 ACM SIGOPS Operating Systems Review , Proceedings of the thirteenth ACM symposium on Operating systems principles SOSP

'91, Volume 25 Issue 5

Publisher: ACM Press

Full text available: pdf(1.46 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Munin is a distributed shared memory (DSM) system that allows shared memory parallel programs to be executed efficiently on distributed memory multiprocessors. Munin is unique among existing DSM systems in its use of *multiple consistency protocols* and in its use of *release consistency*. In Munin, shared program variables are annotated with their expected access pattern, and these annotations are then used by the runtime system to choose a consistency protocol best suited to that acc ...

6 High-speed distributed data handling for on-line instrumentation systems

William E. Johnston, William Greiman, Gary Hoo, Jason Lee, Brian Tierney, Craig Tull, Douglas Olson

November 1997 Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM)

Publisher: ACM Press

Full text available: pdf(438.36 KB) Additional Information: full citation, abstract, references

The advent (and promise) of shared, widely available, high-speed networks provides the potential for new approaches to the collection, organization, storage, and analysis of high-speed and high-volume data streams from high data-rate, on-line instruments. We have worked in this area for several years, have identified and addressed a variety of problems associated with this scenario, and have evolved an architecture, implementations, and a monitoring methodology that have been successful in addre ...

7 Design of the Mneme persistent object store

🔈 J. Eliot B. Moss

April 1990 ACM Transactions on Information Systems (TOIS), Volume 8 Issue 2

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index

Full text available: pdf(3.22 MB)

terms, review

The Mneme project is an investigation of techniques for integrating programming language and database features to provide better support for cooperative, informationintensive tasks such as computer-aided software engineering. The project strategy is to implement efficient, distributed, persistent programming languages. We report here on the Mneme persistent object store, a fundamental component of the project, discussing its design and initial prototype. Mneme stores objects

8 CLAM- an open system for graphical user interfaces

Lisa A. Call, David L. Cohrs, Barton P. Miller

December 1987 ACM SIGPLAN Notices, Conference proceedings on Object-oriented programming systems, languages and applications OOPSLA '87, Volume

Publisher: ACM Press

Full text available: pdf(1.02 MB)

Additional Information: full citation, abstract, references, citings, index

CLAM is an object-oriented system designed to support the building of extensible graphical user interfaces. CLAM provides a basic windowing environment with the ability to extend its functions using dynamically loaded C++ classes. The dynamically loaded classes allow for performance tuning (by transparently loading the class in either the client or the CLAM server) and for sharing of new functions. In addition to the traditionally layering of output abstractions, CLAM allows the ...

9 Office-by-example: an integrated office system and database manager

Kyu-Young Whang, Art Ammann, Anthony Bolmarcich, Maria Hanrahan, Guy Hochgesang, Kuan-Tsae Huang, Al Khorasani, Ravi Krishnamurthy, Gary Sockut, Paula Sweeney, Vance Waddle, Moshé Zloof

October 1987 ACM Transactions on Information Systems (TOIS), Volume 5 Issue 4

Publisher: ACM Press

Full text available: pdf(2.86 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Office-by-Example (OBE) is an integrated office information system that has been under development at IBM Research. OBE, an extension of Query-by-Example, supports various office features such as database tables, word processing, electronic mail, graphics, images, and so forth. These seemingly heterogeneous features are integrated through a language feature called example elements. Applications involving example elements are processed by the database manager, an integrated ...

10 Dynamic software testing of MPI applications with umpire

Jeffrey S. Vetter, Bronis R. de Supinski

November 2000 Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)

Publisher: IEEE Computer Society

Full text available: pdf(83.83 KB)

Publisher Site

Additional Information: full citation, abstract, references, index terms

As evidenced by the popularity of MPI (Message Passing Interface), message passing is an effective programming technique for managing coarse-grained concurrency on distributed computers. Unfortunately, debugging message-passing applications can be difficult. Software complexity, data races, and scheduling dependencies can make programming errors challenging to locate with manual, interactive debugging techniques. This article describes Umpire, a new tool for detecting programming errors at ...

11 Distributed shared memory in a loosely coupled distributed system B. D. Fleisch





August 1987 ACM SIGCOMM Computer Communication Review, Proceedings of the ACM workshop on Frontiers in computer communications technology SIGCOMM '87, Volume 17 Issue 5

Publisher: ACM Press

Full text available: pdf(1.32 MB)

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Ming-Chit Tam, Jonathan M. Smith, David J. Farber

July 1990 ACM SIGOPS Operating Systems Review, Volume 24 Issue 3

Publisher: ACM Press

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John B. Carter, John K. Bennett, Willy Zwaenepoel

August 1995 ACM Transactions on Computer Systems (TOCS), Volume 13 Issue 3

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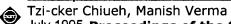
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July 1995 Proceedings of the 9th international conference on Supercomputing

Publisher: ACM Press

Full text available: pdf(1.22 MB) Additional Information: full citation, references, citings, index terms

15 Source-level global optimizations for fine-grain distributed shared memory systems R. Veldema, R. F. H. Hofman, R. A. F. Bhoedjang, C. J. H. Jacobs, H. E. Bal June 2001 ACM SIGPLAN Notices, Proceedings of the eighth ACM SIGPLAN





symposium on Principles and practices of parallel programming PPoPP

'01, Volume 36 Issue 7

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Full text available: pdf(112.60 KB)

Additional Information: full citation, abstract, references, citings, index terms

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16 Accurate data redistribution cost estimation in software distributed shared memory



<u>syste</u>ms

Donald G. Morris, David K. Lowenthal

June 2001 ACM SIGPLAN Notices , Proceedings of the eighth ACM SIGPLAN symposium on Principles and practices of parallel programming PPoPP

'01, Volume 36 Issue 7

Publisher: ACM Press

Full text available: Ddf(270.58 KB)

Additional Information: full citation, abstract, references, citings, index terms

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17 An integrated compile-time/run-time software distributed shared memory system



Sandhya Dwarkadas, Alan L. Cox, Willy Zwaenepoel

September 1996 ACM SIGPLAN Notices, ACM SIGOPS Operating Systems Review, Proceedings of the seventh international conference on Architectural support for programming languages and operating systems ASPLOS-

VII, Volume 31, 30 Issue 9, 5

Publisher: ACM Press

Full text available: pdf(1.30 MB)

Additional Information: full citation, abstract, references, citings, index terms

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Qun Li, Jie Jing, Li Xie

October 1997 ACM SIGOPS Operating Systems Review, Volume 31 Issue 4

Publisher: ACM Press

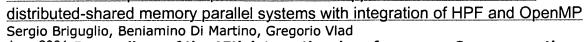
Full text available: pdf(768.69 KB) Additional Information: full citation, abstract, index terms

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not only the local memory but also the remote memory of other nodes, which expedites the data accesses dramatically. It also accesses disks in parallel to ...

Keywords: cache only memory access, distributed shared memory, parallel file system

19 Workload decomposition for particle simulation applications on hierarchical



June 2001 Proceedings of the 15th international conference on Supercomputing Publisher: ACM Press

Full text available: pdf(194.90 KB) Additional Information: full citation, abstract, references, index terms

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20 <u>Distributed shared memory systems with improved barrier synchronization and data</u>



transfer

Nian-Feng Tzeng, Angkul Kongmunvattana

July 1997 Proceedings of the 11th international conference on Supercomputing

Publisher: ACM Press

Full text available: pdf(1.50 MB) Additional Information: full citation, references, citings, index terms

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